# USER MANUAL

*Goldmund TELOS 390 INTEGRATED AMPLIFIER*

Congratulations.

Thank you for purchasing the *Goldmund TELOS 390 Integrated Amplifier*.

You have acquired one of the best Integrated Amplifiers ever made for professional and domestic uses and the first to incorporate Goldmund TELOS amplifier technology. Please take some time to read this manual. It may provide you with useful information to make your pleasure of listening to the Telos 390 even higher.

## INTRODUCTION

### The GOLDMUND TELOS 390 Integrated Amplifier

Goldmund was founded in 1978 and has ever since been dedicated to the accurate reproduction of sound and image.

At Goldmund, we strive to lead in the creation, development and manufacture of the industry's most advanced technologies, including audio and video systems, home - networking and music distribution.

The guiding principle at Goldmund is to produce a precise sound with the least possible loss of quality through the different stages. Goldmund will never adopt a technology before it is sufficiently developed to satisfy the high quality standards we set. This is why Goldmund has often rejected mainstream technologies and developed its own.

W A R N I N G

This high quality amplifier possesses new technical features such as ultra-high band width and computer linking which are necessary for accurate transcription within today's best audio systems.

**Only careful use can provide all the satisfaction you are expecting.**

All handling must be performed in accordance with the instructions detailed in this manual to avoid impairing the amplifier's performance.

Nevertheless, if the instructions are perfectly carried out, you will notice that the use of the GOLDMUND TELOS 390 is quite simple and convenient.

**IMPORTANT!**

DO NOT CONNECT ANY CABLES OR MOVE ANY PARTS BEFORE READING THE FOLLOWING INSTRUCTIONS.

*Goldmund TELOS 390 INTEGRATED AMPLIFIER*

# CONTENTS


1 UNPACKING p 4

2 CHOICE OF AMPLIFIER LOCATION AND COOLING p 5

3 CONNECTIONS & LINE VOLTAGE ADJUSTMENT p 6

4 AMPLIFIER CONNECTIONS p 7

5 SOUND QUALITY OPTIMIZATION p 8

6 MAINTENANCE & CLEANING p 8

7 TECHNICAL DATA p 9

# 1 UNPACKING

You will find within the custom packaging:

- the Telos 390 Amplifier,
- the remote control & batteries (to be fitted before use),
- the power cord,
- this owner's manual.

Unpack the above-mentioned parts carefully.
Keep all packaging for future use.

**WARNING**

IF YOU NEED TO RETURN THE TELOS 390 TO THE FACTORY OR TO YOUR LOCAL REPRESENTATIVE FOR A WARRANTY REPAIR, **PLEASE NOTE THAT IT MUST BE REPACKED IN THE ORIGINAL PACKAGING.**

THIS PACKAGING HAS BEEN DESIGNED SPECIFICALLY TO PROTECT YOUR TELOS 390 IN TRANSIT. USE OF ALTERNATIVE PACKAGING IS LIKELY TO RESULT IN DAMAGE, INVALIDATING WARRANTY COVER.

# 2

## CHOICE OF THE TELOS 390 LOCATION

The Telos 390 amplifier, as all high quality amplifiers generates a lot of heat when driven at high levels and must therefore be vented properly. It is mandatory to allow proper cooling of the heatsinks.

Do not put temperature sensitive equipment on top of the Amplifier.

## LINE VOLTAGE ADJUSTMENT

A voltage selector is provided in the backplate of the Amplifier.

If your line voltage is not adapted to the voltage indictaed on the serial plate of the Amplifier, please consult your local GOLDMUND dealer for adjustment.

### ATTENTION

On the 220V position, the preamplifier will function properly for main line voltage between 200 and 240V. At 110V the main line must deliver between 105V and 125V. If your main line voltage operates outside these tolerances, please consult your Goldmund dealer.

Us a 5A delayed fuse for 220V and an 8A 110V operation.

# 3

# CONNECTIONS

Connect the powercord to the back of the amplifier and plug it into the nearest wall plug. For safety reasons, use only a 3 lugs grounded plug.

To get the best sound from the amplifier, avoid any multi-way plugs or extension cords.

Connect the speaker cables to the binding posts on the rear panel.

Connect the interconnects from any analog sources to line inputs 1 to 5.

Connect the interconnects from any digital sources to line inputs 6 to 8.

ATTENTION

A residual high frequency noise may remain audible in some circumstances if an input is left open and is selected. This disturbance has no effect on the Amplifier but may be avoided easily through the application of short-circuit plugs on all unused inputs.

# 4 AMPLIFIER CONTROLS

**POWER**

The TELOS 390 Integrated Amplifier is powered on using the switch located on the back panel. In regular use this switch should be left ON at all times (see sound quality optimization). The standby function of the remote control should be used to mute the signal for safe removal of cables. When in standby mode the front panel operation LED will blink intermittantly.

The amplifier is powered OFF by switching the back panel switch to the OFF position. A safety circuit switches the unit to mute to avoid any disturbance reaching the speakers.

**MUTING**

To mute the preamplifier output, press the "MUTE" key. The same operation repeated brings back the amplifier to normal operation at the same volume as in operation at the point the mute function was activated.

**VOLUME ADJUSTMENT**

The level control may be adjusted manually using the front panel knob or by using the + and - buttons on the remote control.

**SELECTOR**

The selector now selects one of eight available inputs (5 analog and three digital). Each step clockwise selects the next input in sequence. Selection may also be made using the remote control by pressing the key corresponding to the input on the remote control.

**OPENING VOLUME MEMORY**

This function is only accessible via the remote control. It allows the volume to be automatically set to the level fixed when the unit is turned ON.

To adjust the level, first select the desired output level, then press MEMO on the remote control.

If at any time during playback you wish to retun to this level, just press the RESET button.

# 5 SOUND QUALITY OPTIMIZATION

**WARM UP SONIC EFFECT**

If the amplifier has been powered off for some time, the optimum sound quality is only reached after some time. It may take 15 minutes for the amplifier to reach optimum operating tempearture, as the circuits have to warm up to around +55 degrees Celius (=131 degrees Farenheit).

# 6 MAINTENANCE & CLEANING

The Telos 390 amplifier usually requires no maintenance. Please contact your Goldmund approved dealer if any maintenance should be required.

Always turn the power OFF before cleaning your amplifier.

To clean the external metal of the Amplifier, always use a clean, soft, damp cloth. Dampen with water or a mild detergent solution. Avoid abrasive or harsh cleansers (eg. products containing sodium carbonate).

The identification plates are plated with precious metal. Simply clean them with a soft cloth, without any chemical solution.

# 7

## POWER

- Nominal power:  2 X 195W on 8 Ohms before clipping
- Maximum voltage: 55V peak

These values are for both driven channels.

## FREQUENCY RESPONSE

These figures are valid for the amplifier operating with a 200 mV RMS input and a 8 Ohms resistive load.

- +/- 0.05 dB, 10 - 20 kHz
- +/- 0.5 dB, 10 - 200 kHz

## INPUTS

- 5 analog inputs
- 3 digital coaxial inputs with built-in Alize4 D/A converter

## DISTORTION

Measured with 22 Hz - 22kHz bandwidth and 1 kHz signal:

- Static: THD + N ratio <0.006% (65 W RMS, 8 Ohms load)

## NOISE

- Signal-to noise ratio: > 90 dB.

## OPERATING TEMPERATURE

- Room temperature: -30 to +40 degrees Celsius (-22 to +104 degrees Fahrenheit).
- Internal temperature: +45 to +65 degrees Celsius (+113 to +149 degrees Fahrenheit).

## POWER SUPPLY

- Nominal line voltage: 117 or 234 V (switchable).
- Input voltage range: +/- 15 %.
- Maximum power consumption: 600 W RMS.

## SIZE AND WEIGHT

- 44 cm (17.3") W x 41 cm (16") D  x 10 cm (4") H.
- Weight: 22 kg (48.5lb).

## WARRANTY

- 3 years parts and labor.